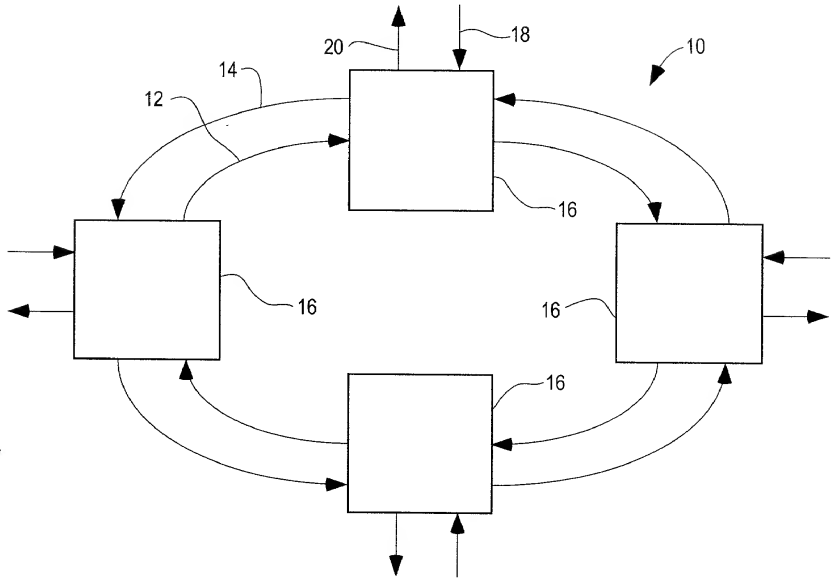
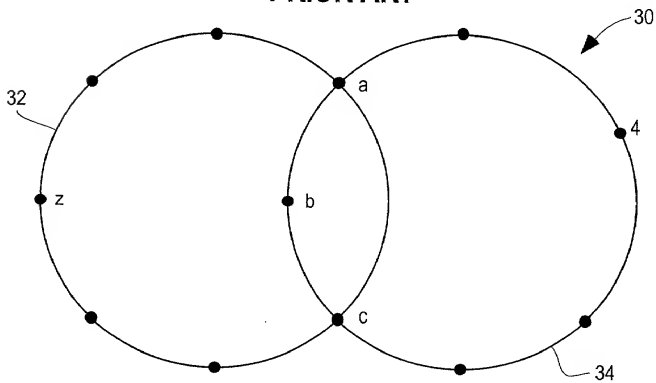


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**FIG. 1**  
**PRIOR ART**

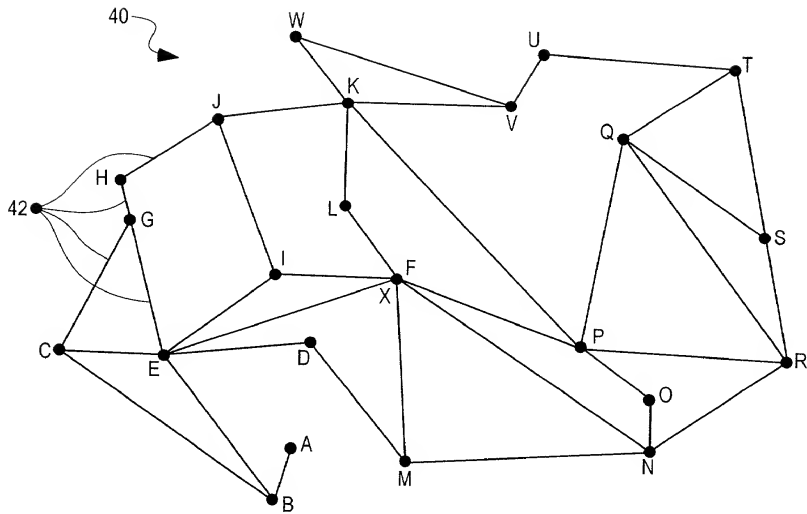


**FIG. 2**  
**PRIOR ART**



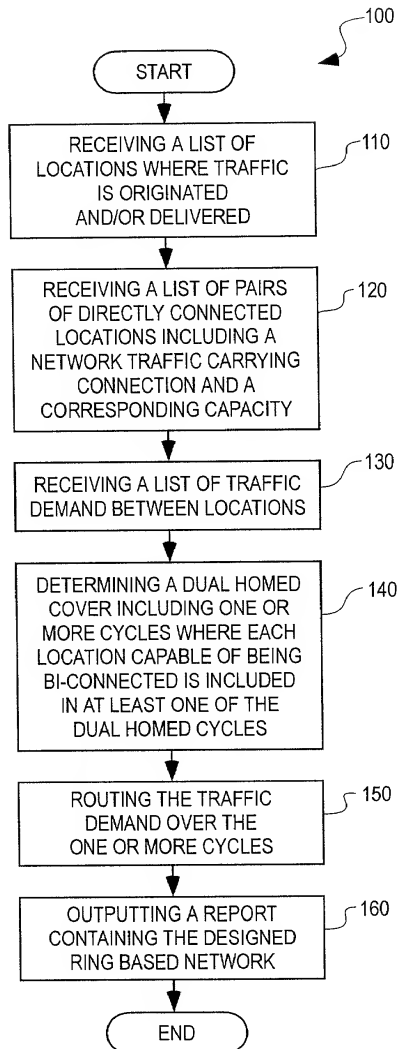
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FIG. 3



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**FIG. 4**



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**FIG. 5A**

200

LOCATIONS
A
B
C
D
E

205

**FIG. 5B**

210

LOCATIONS DIRECTLY CONNECTED		TOTAL # FIBER	SPARE # FIBER
O	N	28	1
M	N	20	4
E	I	19	5
		...	...

215

220

225

230

**FIG. 5C**

235

LOCATION PAIRS		TRAFFIC BETWEEN LOCATIONS
A	B	374
A	C	22
A	D	7
		...

240

245

250

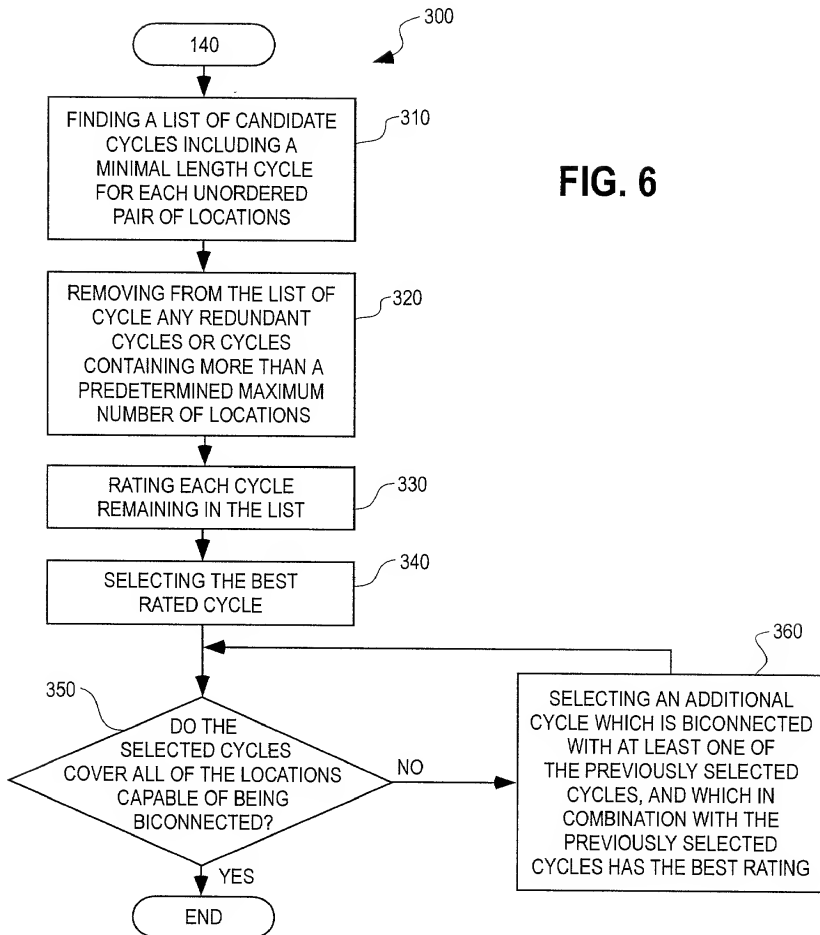
**FIG. 5D**

255

	A	B	C	D	E	F
A	—	374	22	7	...	...
B	374	—	...	...	...	...
C	22	...	—	...	...	...
D	7	...	...	—	...	...
E	...	...	...	...	—	...

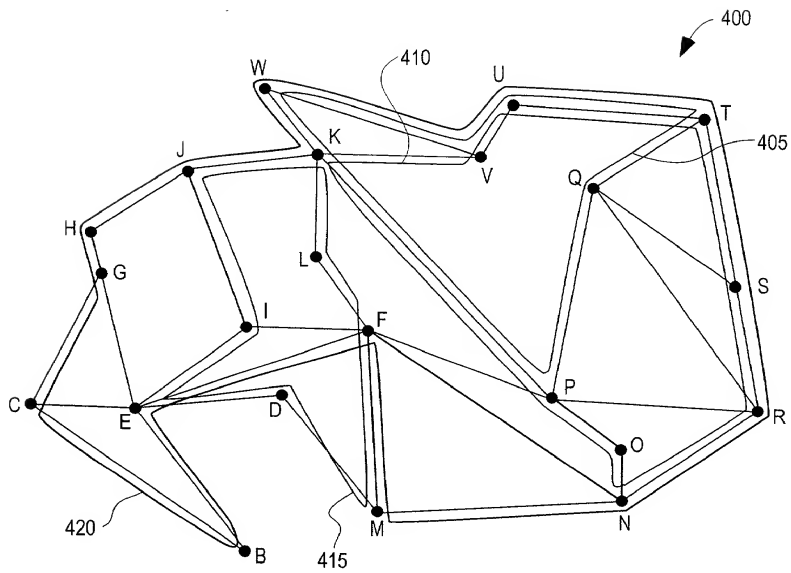
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FIG. 6



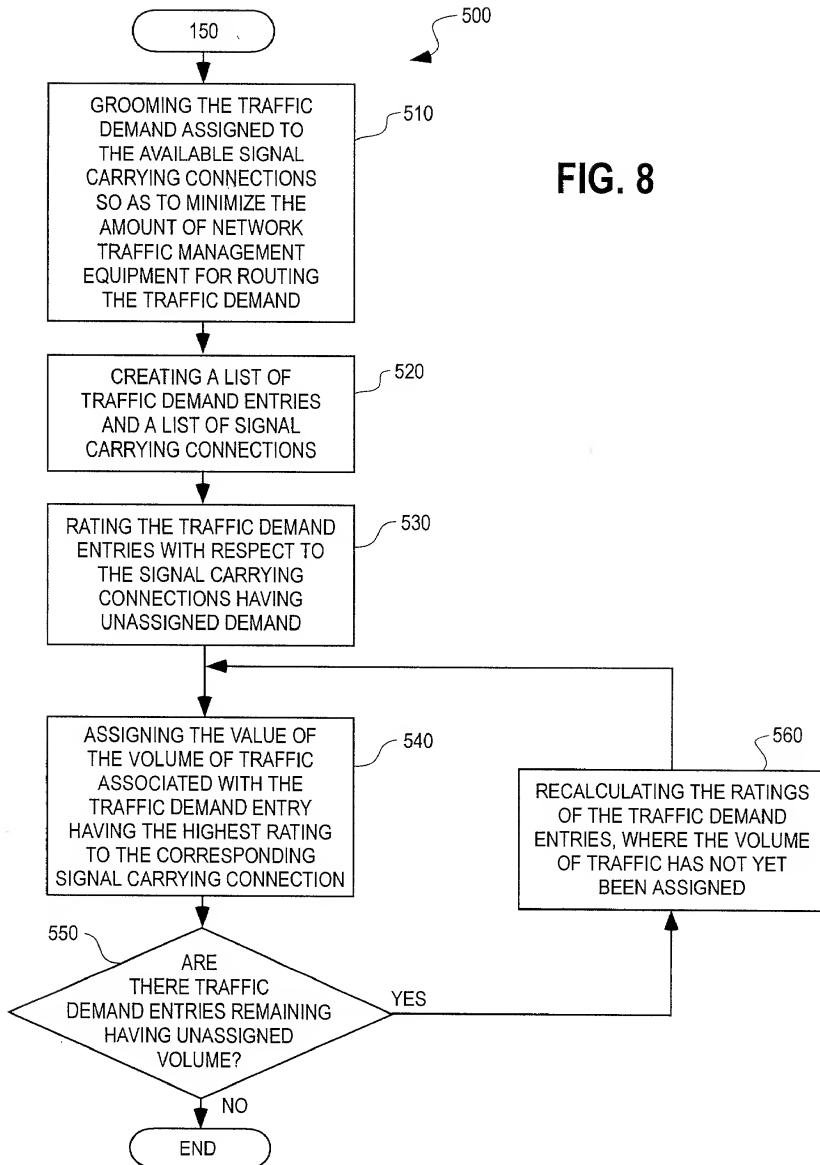
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FIG. 7



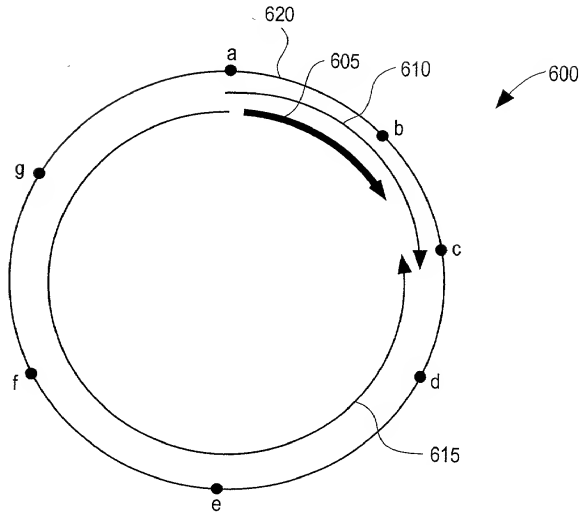
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FIG. 8

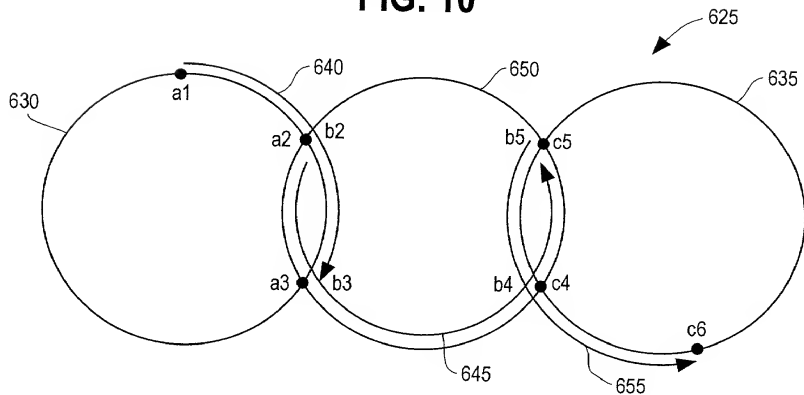


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**FIG. 9**  
**PRIOR ART**



**FIG. 10**





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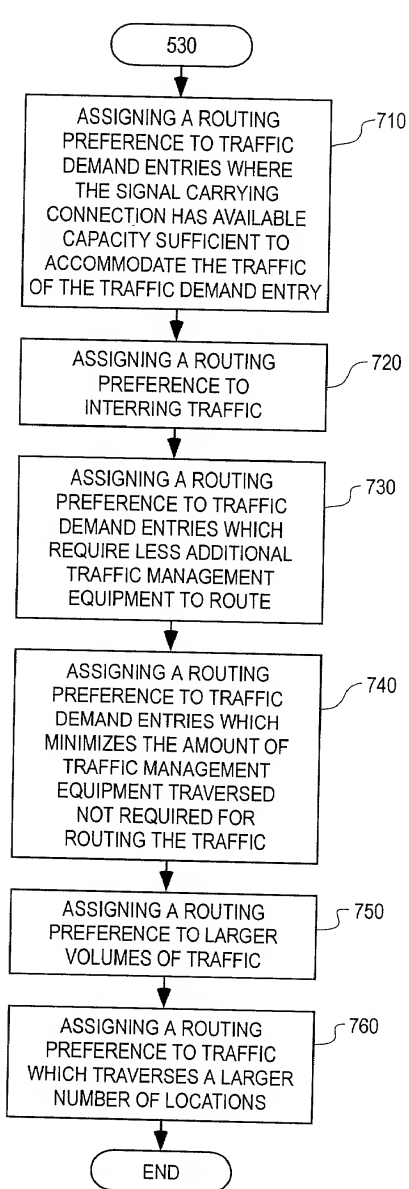
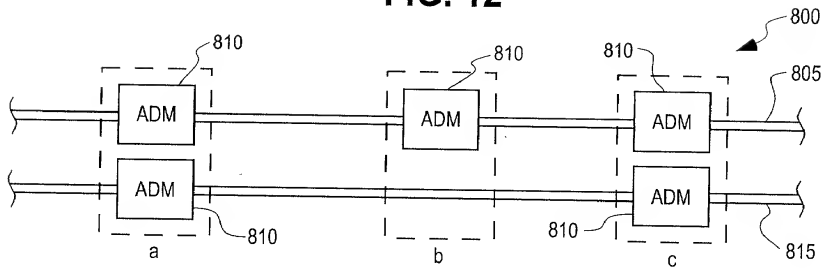


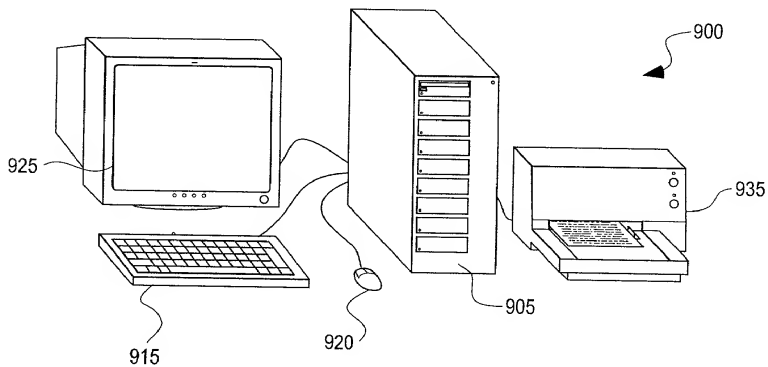
FIG. 11

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**FIG. 12**



**FIG. 13**



**FIG. 14**

